U. S. Department of Agriculture - Forest Service
CENTRAL STATES FOREST EXPERIMENT STATION

Technical Note 46. November 15, 1941

VOLUME TABLE [1]
for
SUGAR MAPLE
(Acer saccharum)

Ashtabula, Geauga, Highland, Mahoning, Medina, Portage, Pike, Richland, Ross and Knox Counties, Ohio

Merchantable Stem to a Variable Top Diameter INTERNATIONAL Rule ($\frac{1}{4}$" Kerf)

Diameter breast high outside bark (inches)	Gross volume of stem in 12.3-foot logs to merchantable height					Top d.i.b. at merchantable limit	Basis in trees
	1 log	2 logs	3 logs	4 logs	5 logs		
	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Bd.ft.	Inches	Number
9	21	37	52			6.8	75
10	27	48	66			7.3	
11	34	59	82			7.8	51
12	41	72	100			8.3	
13	49	86	120			8.9	51
14	58	103	143	181		9.4	
15	68	120	168	212		9.9	42
16	79	139	194	246		10.4	
17	91	160	223	282		11.0	29
18	103	182	254	321		11.6	
19	117	206	288	364		12.1	35
20	131	232	323	408		12.7	
21	147	259	361	457		13.2	27
22	163	288	402	508		13.8	
23	181	319	445	562		14.4	27
24	200	352	491	621		15.0	
25	219	386	538	681		15.6	21
26	239	423	589	745	895	16.2	
27	261	461	643	813	977	16.8	5
28	284	501	698	883	1062	17.5	
29		543	757	957	1151	18.1	4
30		586	817	1033	1242	18.8	
31		632	881	1114	1340	19.5	8
32		679	946	1197	1439	20.2	
33			1016	1285	1545	20.9	3
34			1089	1377	1656	21.7	
35			1161	1469	1766	22.4	5
36			1239	1567	1884	23.2	
37			1318	1667	2004	24.1	1
38			1403	1774	2133	25.0	
39			1489	1884		25.9	2
40			1578	1995		26.8	
Basis in trees--number	70	131	144	39	2	--	386

[1] Trees measured by J. W. Girard in 2-inch diameter classes and in 10- to 16-foot log lengths above a 1-foot stump and scaled as such. Table prepared in 1941 by the equation method. Coefficient of multiple correlation (R) is .995. Band of the standard error of estimate is 90.2 to 110.9 percent. Block shows limits of basic data.

The total estimated gross volume of single sugar maple trees or stands should be corrected for cull (including defect, sweep, crook, shake, etc.) by a percentage reduction. This percentage should be determined locally through observing the cull elements and through local experience of millmen as regards losses from rot, shake, etc., in utilizing this species.

R. E. Emmer